

ABSTRACT

In a low-permeability coil portion (15) formed by stacking low-permeability ceramic green sheets, a first coil (La) and many pores are formed. On the other hand, in a high-permeability coil portion (16) formed by stacking high-permeability ceramic green sheets, a second coil (Lb) and a small number of pores are formed. The first coil (La) and the second coil (Lb) are electrically connected in series to form a spiral coil (L). The coil portion (16) composed of a ferrite ceramic having a small number of pores has a high permeability and a high dielectric constant, and the coil portion (15) composed of a ferrite ceramic having a large number of pores has a low permeability and a low dielectric constant.